

BAR DIMENSION

PURPOSE

Specifies whether a bar is drawn as a 2d or a 3d bar on subsequent plots.

DESCRIPTION

See the documentation for the BAR command for a description of the various types of bar charts that DATAPLOT can generate. Bar dimensions are specified by trace. All bars belonging to the same trace will have the same bar dimension. The 3d effect is created by drawing one rectangle at the top of the bar and another rectangle to the right side of the bar.

SYNTAX

BAR DIMENSION <dimen> <dimen> <dimen> etc.

where <dimen> is either 2 (no 3d effect drawn) or 3 (the 3d effect is drawn). Up to 100 bar dimensions can be specified.

EXAMPLES

```
BAR DIMENSION 2 2 3
BAR DIMENSION 3 ALL
BAR DIMENSION
```

NOTE 1

The BAR FILL and BAR PATTERN commands control whether or not the 3d effect is filled or not. Enter something like the following commands to fill the 3d effect:

```
BAR DIMENSION 3
BAR FILL ON
BAR PATTERN ONTS
```

The following patterns can be used:

```
ONTS = Fill the top and side 3d effects.
ONST = Fill the top and side 3d effects.
ONF  = Fill the interior of the bar.
ONS  = Fill the side 3d effect.
ONT  = Fill the top 3d effect.
ONFS = Fill the interior of the bar and the side 3d effect.
ONSF = Fill the interior of the bar and the side 3d effect.
ONFT = Fill the interior of the bar and the top 3d effect.
ONTF = Fill the interior of the bar and the top 3d effect.
ON   = Fill the interior of the bar and the top and side 3d effects.
OFF  = Do not fill any part of the bar.
```

NOTE 2

The BAR DIMENSION command with no arguments sets the bar type to 2d for all bars. The BAR DIMENSION command with the word ALL before or after the specified dimension assigns that bar dimension to all traces. Thus BAR DIMENSION 3 ALL or BAR DIMENSION ALL 3 plots all bars in 3d.

DEFAULT

All bars are drawn as 2d bars.

SYNONYMS

None

RELATED COMMANDS

```
PLOT           = Generates a data or function plot.
BAR            = Sets the on/off switches for bars on plots
BAR BASE      = Sets the base locations for bars on plots.
BAR FILL      = Sets the on/off switches for plot bar fills.
BAR FILL COLOR = Sets the colors for bar fills.
BAR DIRECTION = Sets the bar directions to horizontal or vertical.
BAR PATTERN   = Sets the types for bar fill patterns.
```

BAR PATTERN COLOR = Sets the colors for bar fill patterns.
 BAR PATTERN LINE = Sets the line types for bar fill patterns.
 BAR PATTERN SPACING = Sets the line spacings for bar fill patterns.
 BAR PATTERN THICK = Sets the line thicknesses for bar fill patterns.
 BAR BORDER COLOR = Sets the colors for bar border lines.
 BAR BORDER LINE = Sets the types for bar border lines.
 BAR BORDER THICKNESS = Sets the line thicknesses for bar border lines.
 BAR WIDTH = Sets the widths for plot bars.

APPLICATIONS

Presentation Graphics

IMPLEMENTATION DATE

87/4

PROGRAM

```
LET CARTER = DATA 66 30 11 43 44 41 35 82 54 36
LET X = DATA 1 2 3 5 6 7 8 10 11 12
XLIMITS 1 12
XTIC OFFSET 1 1
MAJOR XTIC MARK NUMBER 12
YILABEL PERCENT
YLIMITS 0 100
MAJOR YTIC MARK NUMBER 11
MINOR YTIC MARK NUMBER 1
LINE BLANK
BAR ON; BAR WIDTH 0.5
BAR DIMENSION 3
BAR FILL ONTS
TITLE DEMONSTRATE 3D EFFECT; TITLE SIZE 5
PLOT CARTER X
```

